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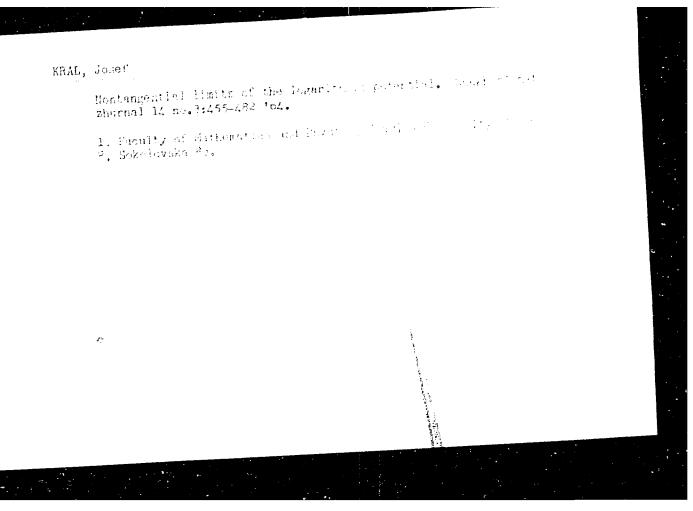
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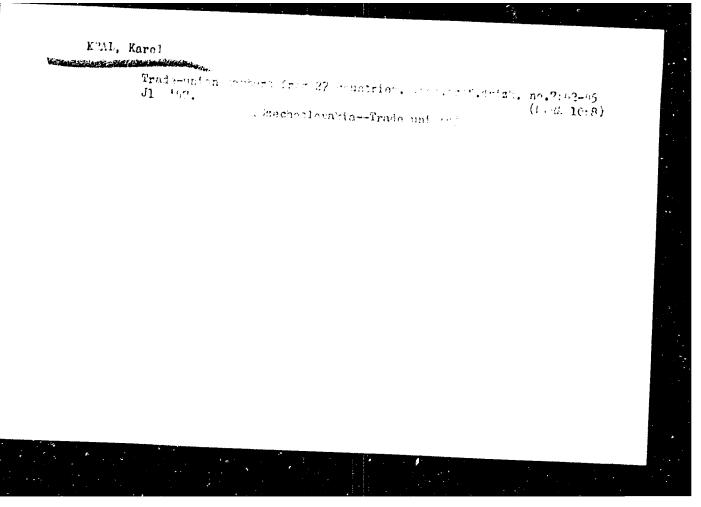
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1. Institute of Mathematics, Czechoslovak Academy of Sciences, Prague 1, Zitna 25.



APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826020007-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826020007-6



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Makovichka) meditsinskogo fakul'teta Karlova universiteta, GradetsKralove, Chekhoslovakiya.

(MENINGITIS virol.)

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KRAL, Indvik

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VONDRACKOVA, A.; VYMOIA, F.; VORTEL, V.; ONDRACKK, J.; KRAL, L.

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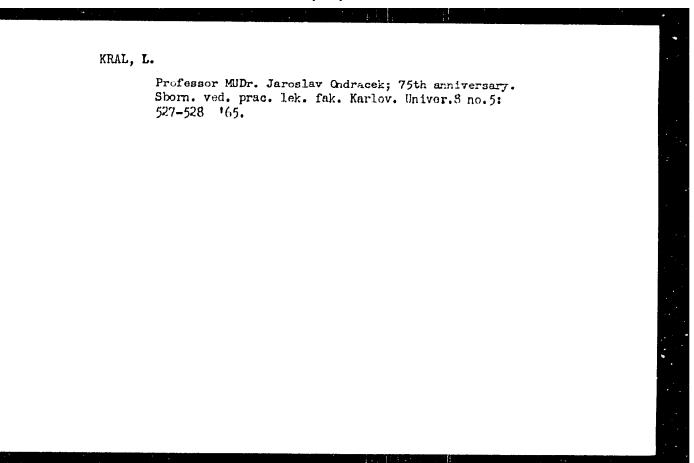
1. Chirurgicke oddeleni nemocnice OUNZ Praha 1, Na Frantisku, prednosta MUDr. V. Cermak.

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CZECHOSLOVAKIA

UDC 616.441-009-009.5-031.01

KRAL, L.; ZAJICEK, V.; CERMAK, V.; FEIX, V.; KOMEREK, R.; KOPAC, S.; Dept. of Surgery, Anesthesia and 2nd Internal, Hospital (Chir. Anest. a II. Int. Odd. Nemocnice) na Frantisku, Head (Vedouci) Dr V. CERMAK, Dr V. ZAJICEK, Dr R. KOMAREK; Otolarygological Dept. Polyclinic of Okresni Inst. of Nat. Health (Otolaryngologicke Odd. Polikliniky OUNZ) Prague 1, Head (Vedouci) S. KOPAC; Int. Dept. Faculty Polyclinic, Charles Univ. (Int. Odd Fak. Polikliniky KU), Prague, Head (Vedouci) Prof Dr K. HERFORT.

"Surgery of the Thyroid Gland Under General Anesthesia."

Prague, Casopis Lekaru Ceskych, Vol 105, No 27-28, 4 Jul 66, pp 744 - 750

Abstract /Authors' English summary modified 7: 567 thyroidectomics under endotracheal anesthesia with a fatality rate of 0.35% are described. In the past 6 years 404 operations (27 malignant, 184 toxic) were performed without a fatality. In 377 benign goitres unilateral damage was found in 7.7%, bilateral not at all. endotracheal anesthesia is suitable in thyroid gland surgery. 6 Tables, 11 Western, 4 Czech, 1 Russian, 3 East German references. 1/1 (Ms. rec. Jul 65).

- 64 -

CZECHOSLOVAKIA

UDC 615.372(:576.851.551)-033-092.22

KRAL, L.; KYSELOVA, M.; Clinic of Infectious Diseases, Medical Faculty, Charles University (Infekcni Klinika Lek. Fak. KU), Hradec Kralove, Head (Prednosta) Prof Dr J. ONDRACEK; Institute of Sera and Vaccines (Ustav Ser a Ockovacich Latek), Prague, Director (Reditel) Dr J. MALEK.

"To the Problem of Tetanus Antitoxin Resorption."

Prague, Casopis Lekaru Ceskych, Vol 105, No 36-37, 9 Sop 66, pp

Abstract /Authors' English summary modified 7: Dynamic investigation of the concentrations of tetanus antitoxin in the blood of 8 patients suffering from tetanus showed that the administration of 20-50,000 I.U.A.T.S. produces levels satisfactory for the treatment of tetanus; the antitoxin is absorbed within 2-3 hours and protective levels last for 14 - 21 days. Experiments on 2 subjects to whom 3000 I.U.A.T.S. were administered i.m. showed that the lymphatic system participates in the absorption and transportation of the antitoxin. 3 Figures, 3 Tables, 49 Western, 8 Czech, 3 Russian, 2 Indian references. (Ms. rec. May 66).

- 27 -

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(DYSPEPSIA)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826020007-6

KRAL, M.

CZECHOSLOVAKIA/Optics - Optical Technology

K

Abs Jo.r

: Ref Zh r Fizika, No 9, 1959, 21282

Author

: Kral, M.

Inst

Title

: Optical Test Glasses

Orig Pub

: Jenua mech. a pot., 1958, 3, No 9, 299-303

Abstract : S rvey article on the se of test glasses.

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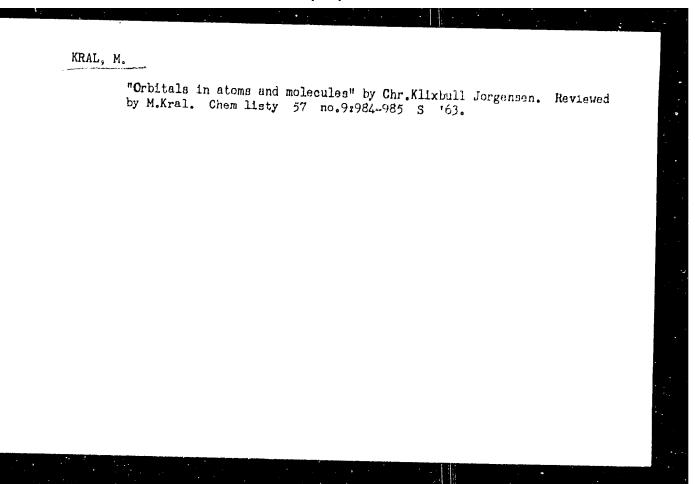
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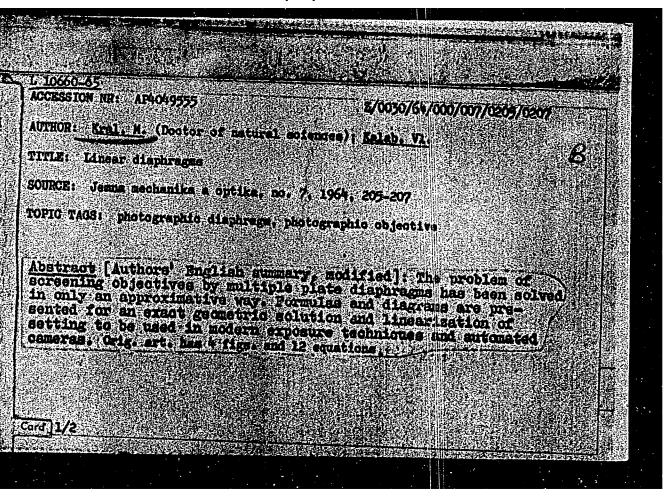
1. Ustav pro vyskum optiky a jemne mechaniky, Prerov.

KRAL, M., RNDr.

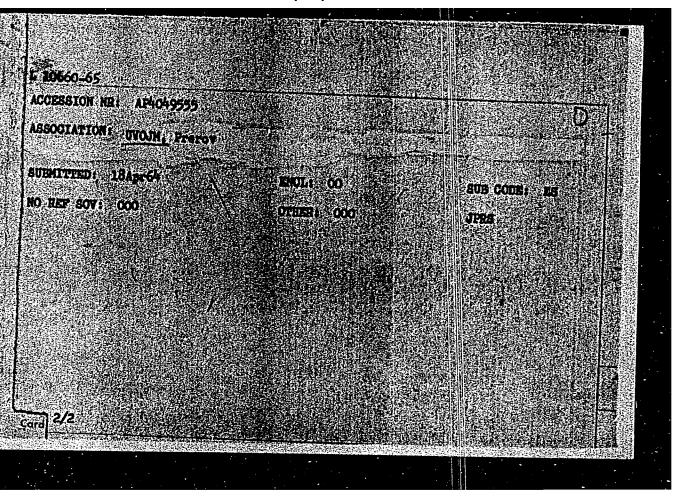
Calculation of the Airy integral function. Jemma mech opt 8 no.11: 381-384 N'63.

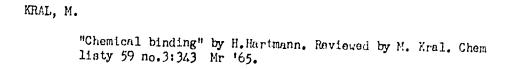
1. Ustav pro vyzkum optiky a jemne mechaniky, Prerov.





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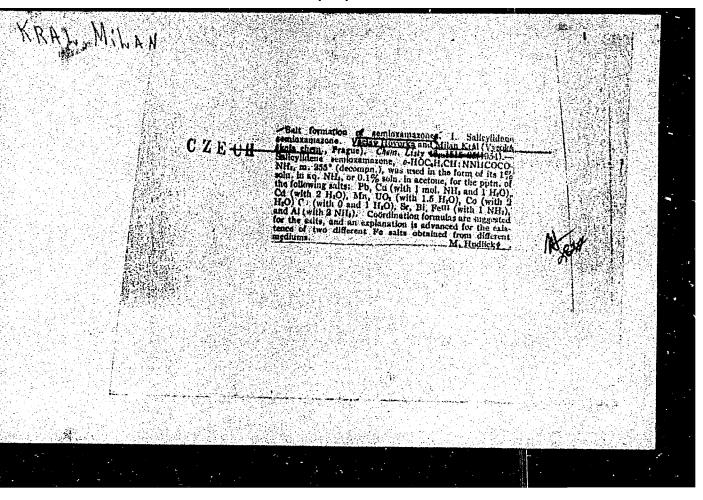
CZECHOSLOVAKIA 6 Jul 66

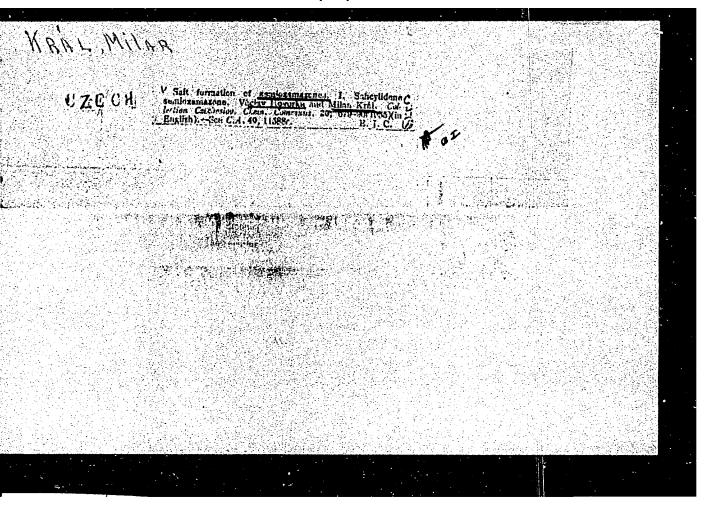
KRAL, Milan

Docent, Engr, head of the Department of the Theory of Panagement, Advanced School of Politics of the KSC Central Committee, addressed the opening session of the J.A. Komensky Festival, attended by the pedagogues from the entire country, Uherske Hradiste, South

Rovnost, Brno, 7 Jul 66, p 3.

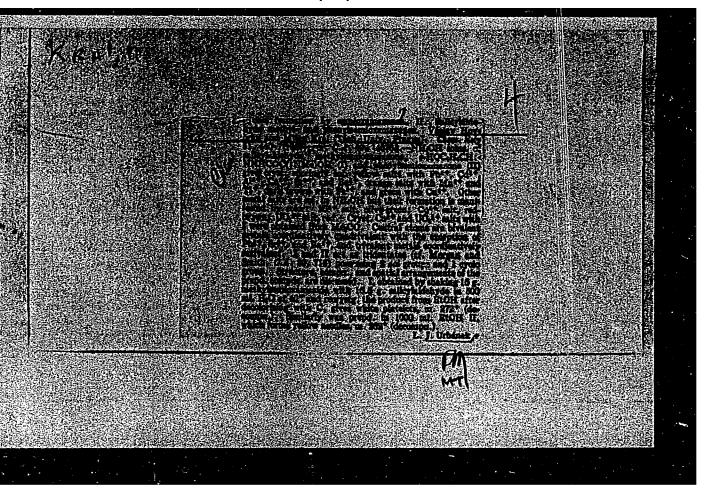
(1)





Country : CZECHOSLOVAKIA Catogory : Inorganic Chemistry. Complex Compounds C Abs. Jour. : Ref Zhur-Khim, 1959, No 5, 14942 Author : Hovorka, V.; Kral, M. Institut. : Salt-Formation by Semioxamazones. II. Salicylal-Tiola dehyde Methyl - and Phenylsemioxamazone Orts. Pub. : Collect czechosl. chem. commun., 1958, 23, No 5, Abutract : No abstract. See Hef Zhur-Khim, 1958, 7406. Card: 1/1. C_10

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CZECHOSLOVAKIA/Inorganic Chemistry. Complex Compounds.

C

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81002.

Author : Hovorka V., Kral M.

Inot

Title : Metal Salts of Salicyladehyde with Salicyloyl-

hydrazone.

Orig Pub: Chem. listy, 1958, 52, No 1, 47-54.

Abstract: Complexes of the divalent Mg, Ca, Sr, Da, Ni, Cu, Zn, Cd, Sn Fb and Mn were synthesized

with salicyloyhydrazone of salicylaldehyde

(I) forming the bi-cyclic innercomplex compounds having hexagonal and heptagonal ring structures. I was obtained at elevated temperature while an alcohol solution of salicylic acid hydrazide was

Card : 1/3

CZECHOSLOVAKIA/Inorganic Chemistry. Complex Compounds.

Abs Jour: Ref Zhur-Khin., No 24, 1958, 81002.

shaken with salicylaldehyde, followed by the recrystallization from alcohol. In the synthesis of complexes 1% solution of I in concentrated NH3 was employed. The following complexes were obtained: RMg. H2O, RCa, RSr, RDa, RPb, RMn. H2O, RNi . 3NH3 . H2O, RNi . NH3, RNi . C.H.N, RNi, RCu . NH3 . H2O, RZn . 2NH3, RZn . C.H.N, RCd, RCd . NH3, RCd . 2C.2H3N, RSn . NH3, where R = C/4H1003N, and RT12 with monovalent TI. The majority of metal complexes (the central atoms of which have the coordinating number of 4) are considered by the authors of having either a plain quadratic (Ni, Cu) or a tetrahedral (Zn, Cd, Sn, and Mg) structures. Complexes of both types form Mg (sic). The coordinated tri-valent Ca, Sr, and Pb form also bi-cyclic compounds,

Card : 2/3

8

CZECHOSLOVAKIA/Inorganic Chemistry. Complex Compounds.

C

Abs Jour: Ref Zhur-Khin., No 24, 1958, 81002.

as well as salts of Cd and Zn. obtained in the drying of anino-compounds. In the unstable green RNi . 3NH; and in RDa the netals are the coordinated hex-valent similar to a Da salt, one atom of which is bound with two molecules of I, that correspond to an octohedral structure. In the case of yellow RNi that contains one atom of Ni bound with one molecule of I (what would correspond to a tri-valent coordination) the saturation of the fourth valence is apparent which evidently occurs through the formation of a polymer with the hexa-membered rings bound by hydrogen bounds. -- Jiri Vanecek.

Card : 3/3

COUNTRY Czechoslovakia CATEGORY ABS. JOUR. : RZKhim., No. 21 1959, Ro. 74488 AUTHOR Hovorka, V. and Kral, A. IN.32. kot given Isostructural Isometallic Chelates. I. Salts of TITLE the Salicoylhydrazone of Salicylaldehyde with Divalent and Trivalent Iron ORIG. PUB. : Chem Listy, 52, No 9, 1710-1715 (1958) ABSTRACT Chelates of the salicoylnydrazone of salicylaldehyde with Fe(2+) and Fe(5+) (see abstract No 74502 for definitions) of overal composition C2 8 H2 2 06 Ha Fe (I) for the Fe(2+) complex and C28H21 C6 Na F6 (II) for the Fe(3+) complex have been prepared and studied. Salt I was prepared by mixing an aqueous solution of Kohr's salt, tartaric acid (+II), and Na, S, O, with a solution of the salicoylhydrazone of calicylaldehyde in conc NH, OH; the crystals of I are separated CARD:

COUNTRY CATEGORY	:	Czechoslovakia	c
ABS. Jour. AUTHOR APOT. TITLE	:	RZKhim., 40. 21 1959, 30.	74488
ORIG. PUB. 1807RACT	:	salt which separates is converted a	
		into macrocrystals of II which ares tered and washed with ammonia. The is dark brown in reflected and transand does not dissolve in nonpolar and organic solvents. The DTA curves of I in air show two endothermic effect 280-400°), whereas the curves for II one effect (560-420°). The thermogreestablished slower decomposition of	salt of II smitted light, id in polar stained for 65 (90-180°,

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C : Czechoslovakia OCUMTRY CATEGORY 74488 : RZKhim., No. 21 1959, No. AES, JOUR. ROETUA IFST. 71763 ORIG. PUB. : at elevated temperatures indicates, in the opinion of the authors, a stronger bonding of the ABSTRACT ligand to the central atom than in the case of II. From the average measured heats of combustion of I (-2,952.5kcal/mol) and II (-3,216.9 kcal/mol), the authors have calculated heats of formation: -521.39 kcal/mol for I and -233.04 kcal/mol for II. The heat of comoustion of I is considerably lower than that of II, notwithstanding the fact that the combustion is accom-

CARD: 4/5

70

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826020007

: Czechoslovakia COUNTRY

CATEGORY

AES. JOUR. : AZMhim., No. 21 1959, No.

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03IO. PUB. :

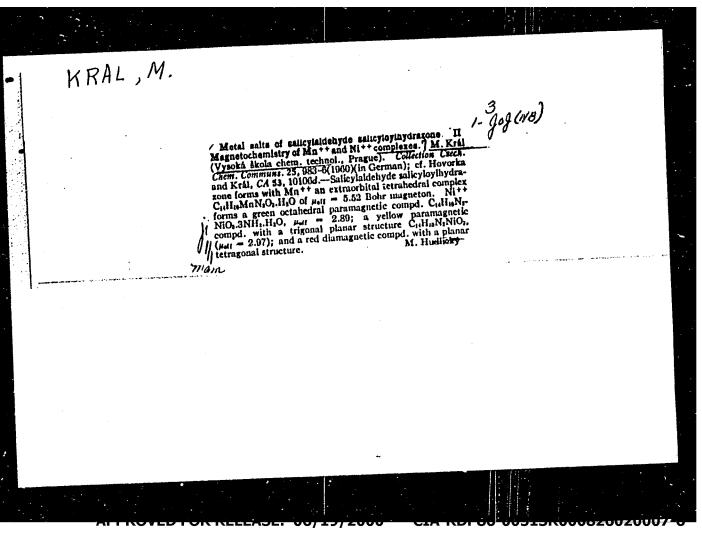
ABOTPA: I gamied by the exothermic exidation reaction

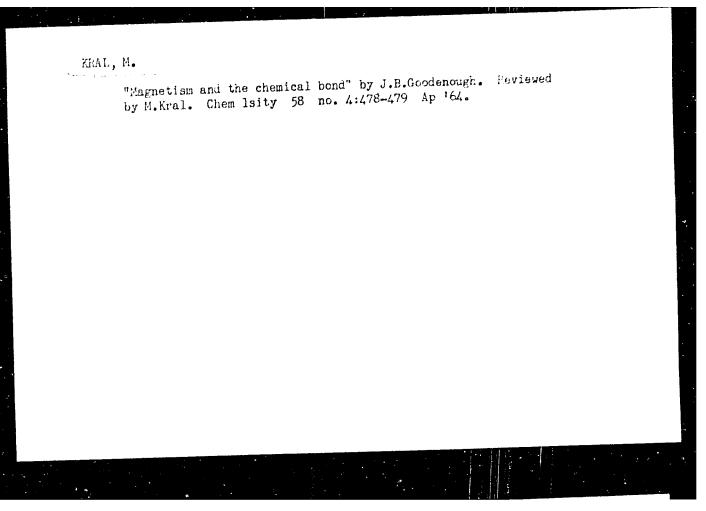
Pe(2-)-→ Pe(3+)

and a reverse affect could therefore be expected The authors are of the opinion that the difference in nests of combustion is due to the destruction of the strong bonds between the ligands and the central atom in L. Fowder patterns are given for I and II and probable structures are proposed

for these compounds. J. Vanecek

CARD: 5/5

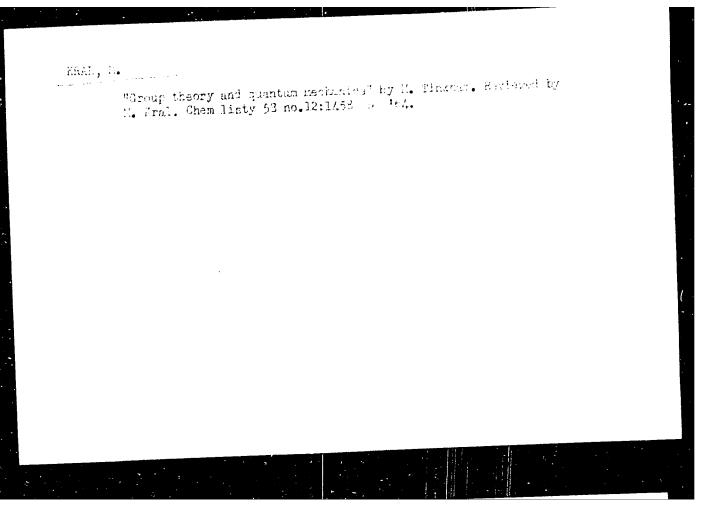




KHAL, M.

Notes on the selection of the standard substance in magneto-chemistry. Chem Cz Chem 29 no.11:2841-2844 N *64.

1. Institute fur analytische Chemie, Technische Hochschule für Chemie, Frague.



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KRAL, Otokar, dr.

The new Law on Technical Standardization and Industrial Safety.

Normalizace 12 no.12:333-335 D *64.

1. Central Council of Trade Unions, Prague.

ACC NR: AP700531 SOURCE CODE: UR/0131/67/000/001/0055/0060

AUTHOR: Klyucharov, Ya.V.; Kral', O.A.

ORG: Leningrad Technological Institute im. Lensovet (Leningradskiy

teknologicheskiy institut)

TITLE: Technical properties of composition of the MgO-Cr2O3-ZrO2

system

SOURCE: Ogneupory, no. 1, 1967, 55-60

TOPIC TAGS: refractory metal, compressive strength, porosity metal deformation, magnesium oxide, coromium oxide, zirconium

oxide, metal bonding

ABSTRACT:

It is well known that because of some specific properties, high-melting
Mg, Cr, and Zr oxides cannot be used individually for the preparation of
refractories. Refractories with desirable properties may be obtained from
mixtures of preliminarily heat-treated MgO, Cr₂O₃, and ZrO₂. The main
purpose of this article is to study the technical properties of compositions
containing MgO in amounts enough to bond completely Cr₂O₃ into MgCr₂O₄ and
containing ZrO₂. The ultimate compression strength, apparent density,
apparent porosity, temperature of deformation under stress, linear setting,
and chemical stability with respect to CaO and Fe₂O₃ were determined for

Card 1/4 UDC: 666,76,001,5

The cine	specimen d ZrO ₂ , obtained	s were obtaicalcined (at by sintering	Cr ₂ O ₃ —ZrO ₂ rend by sinter 1300 and 160 ag mixtures of the refractor of the compo	ring t 00C) l f pure	MgO, a MgO, a MgO	es of dr nd MgCr ₂ 0 and Cr ₂ 0 and afte	o ₃ . To at large	ne latt 400 and	ter d given	:
1n 1		Table 1.	Composition	of s	pecime		ed, %		i. U	
1	Group	No Specimen	Initial com Monoclinic ZrO2		Cr ₂ O ₃	Cubic ZrO ₂	MgCr ₂ Q	MgO		
!	I	7 9 12	89,2 69,2 48,4	6,0 9,4 31,7	4.8 21.3 19.9	94,0 73,0 51,0	6.0 27.0 25,2	23,8		
	ıı	10 13 15	: 31.7 15.0	15,6 29,4 21,0	52.7 55.6 79.0	33,2 15,8	68.8 70.3 100.0	.13,9		
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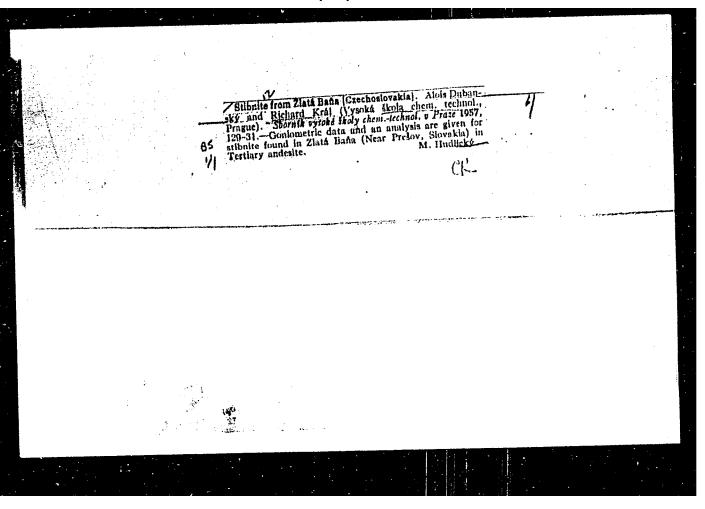
Properties		<u> </u>	III						
		7		Spe	15	14			
Linear set	ting, %	11,3	13,5	13,4	10	13	9,0	12,4	,
Apparent d	ensity g/cm ³	5,3	5,1	4,4	4,6	4,2	3,7	3,9	
Ultimate c	ompression	4500	5000	5500	not deten	d 4500	not detend	4500	

Analysis of the experimental data showed that dense, chemically and mechanically stable specimens of the MgO— Cr_2O_3 — ZrO_2 system which have a high deformation temperature (above 1720C) under load (2 kg/cm²) may be obtained from mixtures containing uncalcined ZrO_2 , Mg Cr_2O_4 , and MgO (calcined at 1600C) with the final firing temperature of the refractory being 1700—1750C. Group I composition with high ZrO_2 content has better

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ſ	Table 3. Properties of		Group No.							
	Properties		I			II_		III		
			9	12	10	10 13 15*1		14*2	14*3	
ļ	Temperature of deformation under load 2 kg/cm ² , C.	> 1800	1770	1780	1740	1730	1680		1720	
1	Linear setting, % Apparent porosity, %		14,9 4,4	14,6 8,4	7,3 17,7	3.2 23.6	12,5	8.8 10.5	9,2 10,9	
	Apparent density (volume weight) g/cm	2,2 5,2	4,7	4,3	3,9	3,4	4,5	3,7	. 3,6	
	Ultimate compression strength kg/cm² · · · ·	3600	> 4300	3400	3400	2500	1100	1600	3700	: •
	*1 Literature data	y ••• •	7:	••	•	•	•	-		
	$*^2$ MgO calcined of 130 $*^3$ MgO calcined at 160	0C 0C		.					بالمناسبة والربب	
-	technical properties t ZrO ₂ to spinellide-per	han	group	II a	ind II	[] (8	œ Tabl	le. 2). 7	The add	ition o and
	chemical stability Wit	h re	spect	to (æυ; τ	cne a	dditi	on of Mg(Cr204 1	CEP LO 100
	their atability with 1	espe	ct to	iror	1 oxic	des.				
CO	DE: 11/ SUBM DATE: n	one	OF	IIG 1	KEF:	01	3/	OIN NEF	. 002	- /



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P. 524 (Chemie) Vol. 9, No. 4, Aug. 1957, Czechoslovakia

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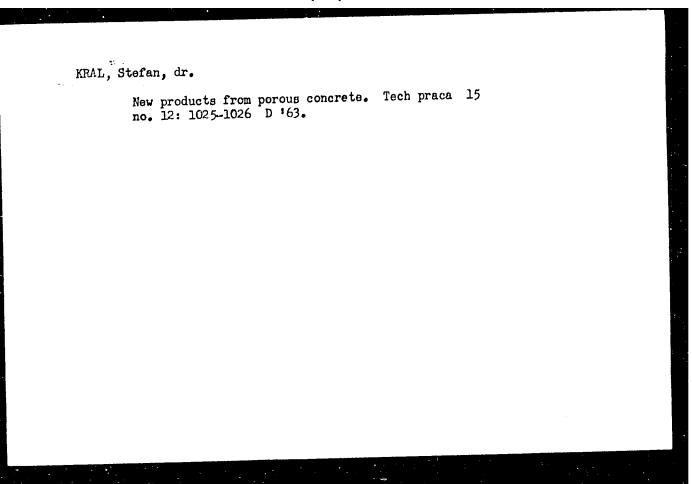
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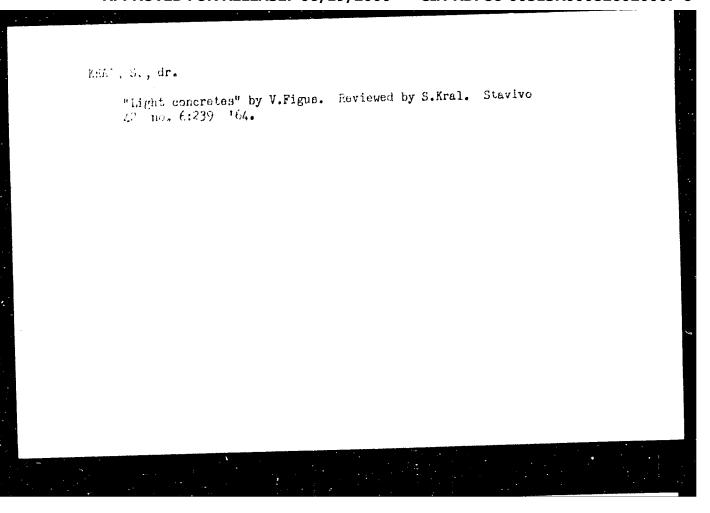
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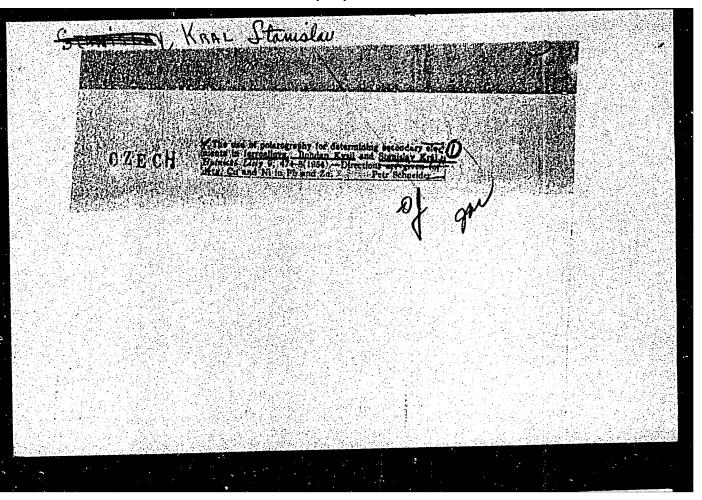
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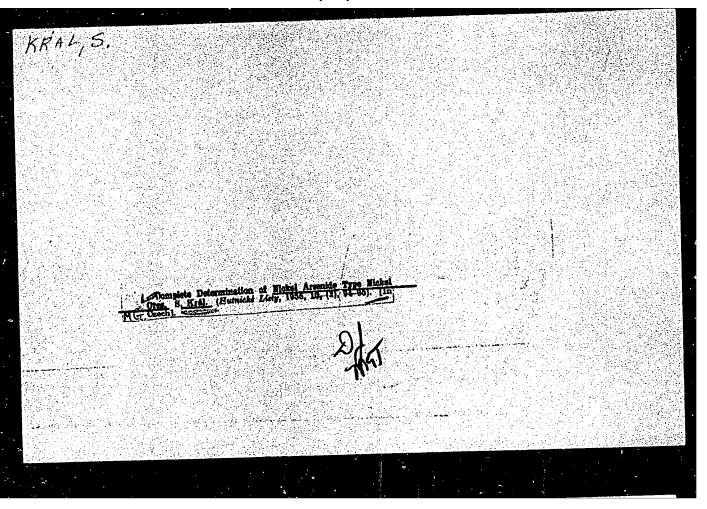
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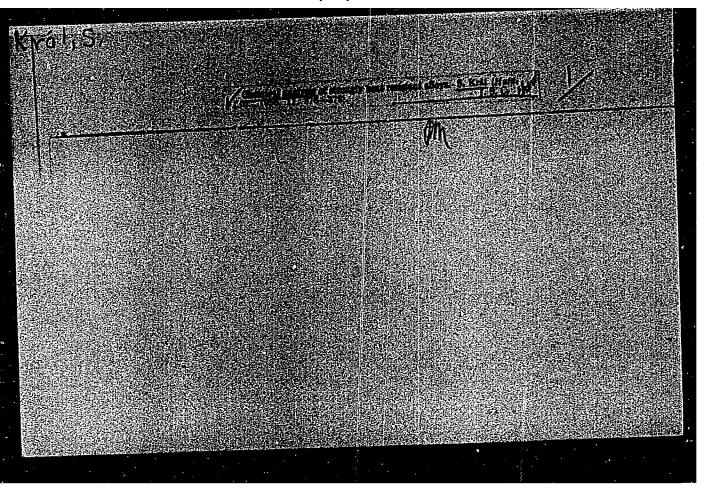
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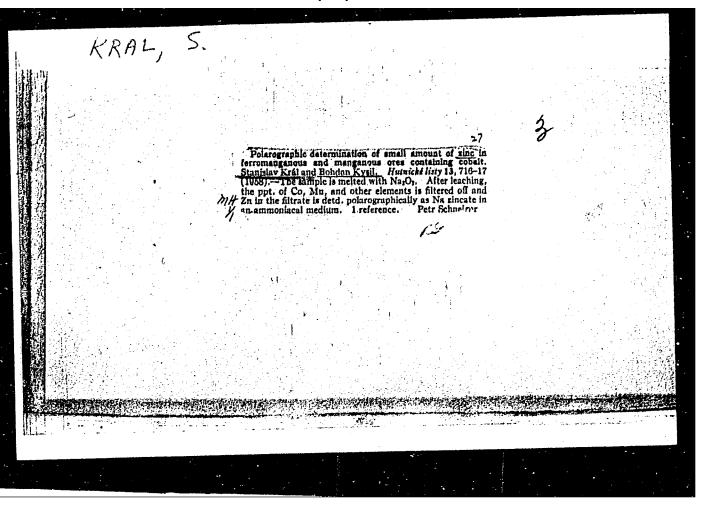
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CZECHOSLOVAKIA / Analytical Chemistry. Analysis of E-2: Inorganic Substances.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 985.

: Kral, S., Vobora, J. Author

Inst : Not given.

Title : The Analysis of Calcium Tungstate.

Orig Pub: Hutnicke listy, 1958, 13, No 5, 429-430.

Abstract: The methods for determining tungstic acid in

the following compounds were described: Hg(NO3)2, co_2 , Mo, Cr and V, P, Fe_2o_3 , Al_2o_3 , Tio_2 , MnO,

CaO, MgO, SiO_2 , $\mathrm{As}_2\mathrm{O}_5$, CuO , SnO_2 and SO_3 in schee-

lite and other minerals, containing CaWO4. --

T. Levi.

Card 1/1

APPROVED FOR RELEASE; 26/49/2009y. GLA-RD886:00513R000826020007-Inorganic Substances.

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42101.

Author : Kral, S.; Sedlar, J.

: Not given. Inst

: Titrimetric Determination of Silicon in Ferro-Title

chrome Silicon.

Orig Pub: Hutnicke listy, 1958, 13, No 9, 812.

Abstract: Two methods of determination of Si in ferrochrome silicon are described: dissolving and fusion. In the first method, a crushed sample (0.2 g.) is dissolved by cooling in a mixture of 20 ml. of diluted HNO3 (1:1) and 8 ml. of HF. 12 g. of solid KNO3 are added to the solution, which is kept for 15 minutes. The deposit K2SiF6 is filtered, washed LRAL, S.

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periodicals: HUTHICKE LISTY Vol. 13, no. 10, Oct. 1958

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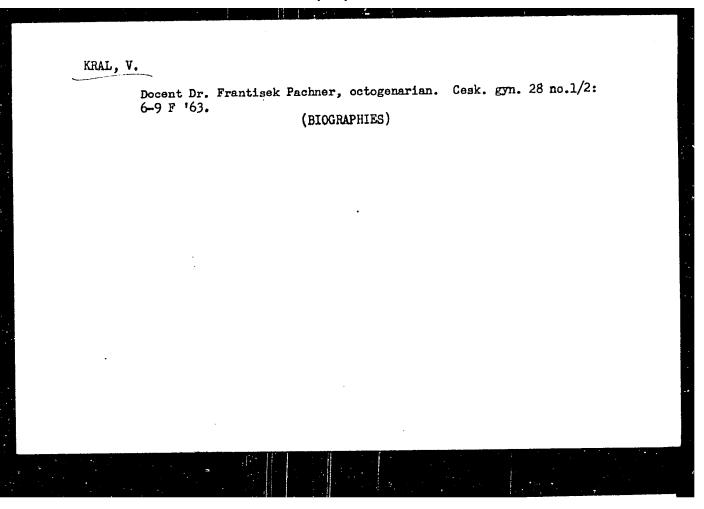
CZECH/34-59-9-16/22 AUTHOR: Kral, Stanislav Chemical Analysis of Tantalum-Niobium Ores and Concentrates PERIODICAL: Hutnické listy, 1359, Nr 9, pp 80/-809 ABSTRACT: Chemical analysis of ferrotantalym-niobium is considered as being one of the most complicated and most laborious analysis in metallurgy. Several authors (Refs 1 and 2) have dealt with analysis of ferrotantalum-niobium. However, almost no information has been published on the analysis of ores and concentrates of this material. Since ferrotantalum-niobin and the respective raw materials are frequently/analysed in the laboratory of the author, the analytical analyses, and particularly the analytical methods/applied in the laboratory of the author, are described in this article. For determining the oxides of silicon, niobium, tantalum, titanium and iron a single charge is used. The determination of each of these, as well as other elements present in the ore, is described. There are 2 tables and 3 references, 1 of which is Czech, 1 English and 1 German. ASSOCIATION: SONP Kladno

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Vol. 2. 1954. 225 p.

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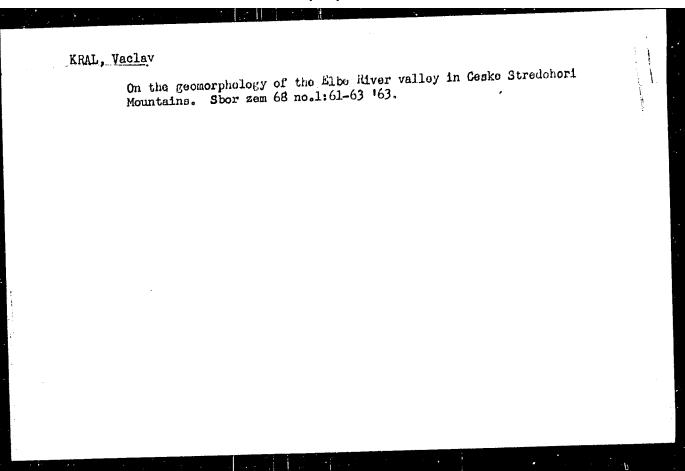
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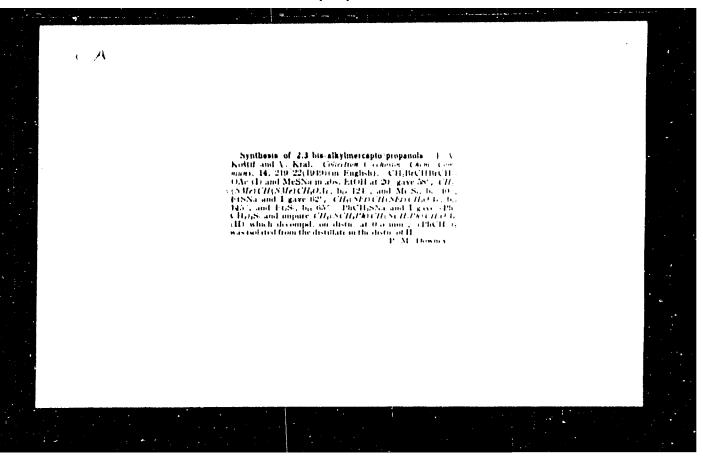
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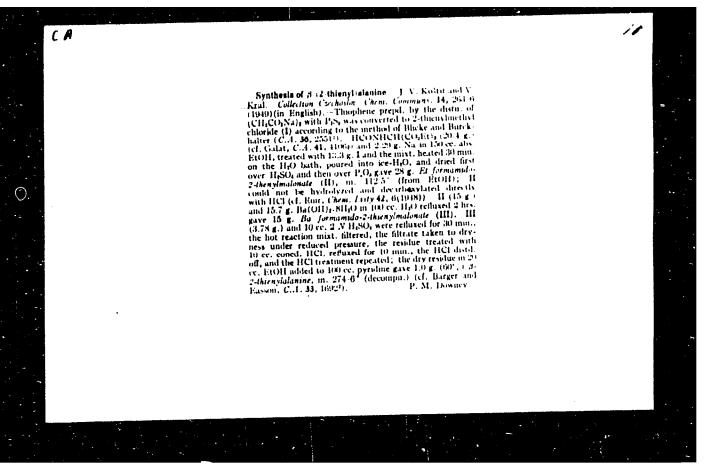
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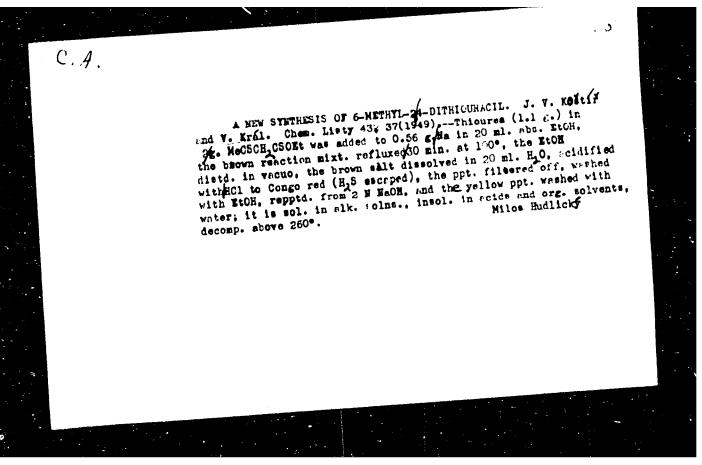
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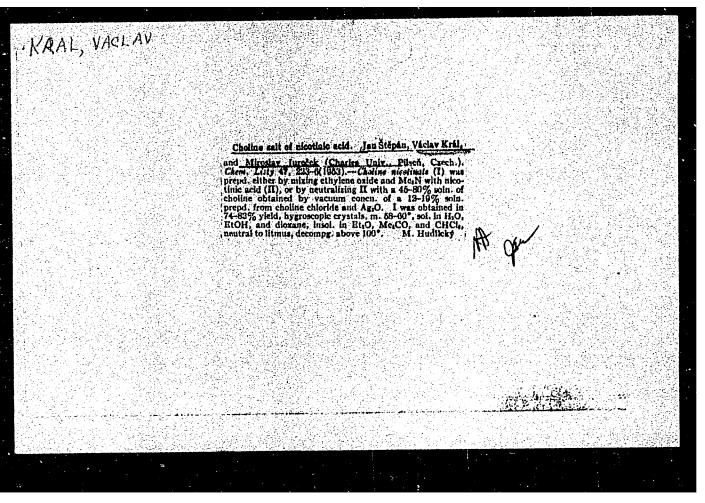
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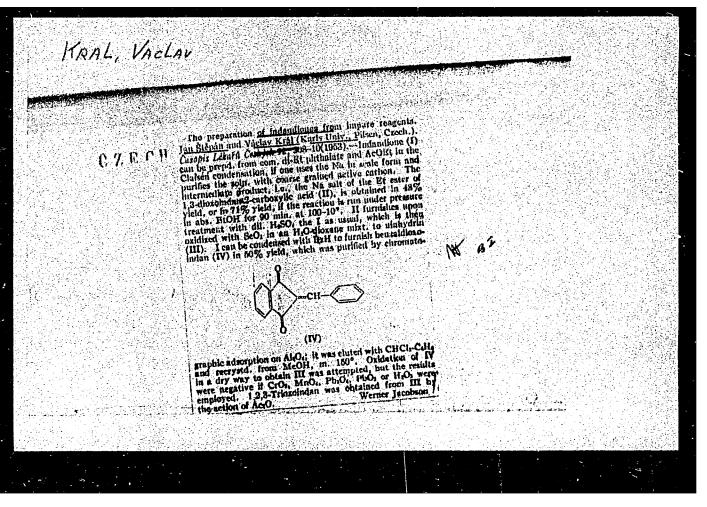
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Ueber Cholinnicotinasureprodukte

From the Institute for Medical Chemistry of Charesl University, Plzen and the chair for analytical chemistry of the Chemisal-Technological University in Pardubice.

SO: Die Pharmazie, Dec 1955, Unclassified.

